Carbohydrate Research, 237 (1992) C9–C11
Elsevier Science Publishers B.V., Amsterdam

CONTENTS

Circular dichroism and ultraviolet spectroscopy of complexes of amylose
G. Wulff and S. Kubik (Düsseldorf, Germany) 1

Computer-assisted analysis of the structure of regular branched polysaccharides containing 2,3-disubstituted rhamnopyranose and mannopyranose residues on the basis of ^{13}C NMR data
G.M. Lipkind, A.S. Shashkov, N.E. Nifant'ev and N.K. Kochetkov (Moscow, Russian Federation) 11

Evidence for molybdate complexes of ketoses and aldoses in the furanose form: a ^{13}C and ^{1}H NMR study
J.-P. Sauvage, S. Chapelle and J.-F. Verchère (Mont-Saint-Aignan, France) 23

Crystal structure of methyl 3-*O*-β-D-glucopyranosyl-β-D-glucopyranoside (methyl β-D-laminarabioside) monohydrate
K. Noguchi, K. Okuyama (Tokyo, Japan), S. Kitamura and K. Takeo (Kyoto, Japan) 33

The crystal structure of a 1:1 complex of *n*-octyl α- and β-D-glucopyranoside at 123 K
G.A. Jeffrey and Y. Yeon (Pittsburgh, PA, USA) 45

Structures of the glycopeptidolipid antigens of serovars 25 and 26 of the *Mycobacterium avium* serocomplex, synthesis of allyl glycosides of the outer disaccharide units and serology of the derived neoglycoproteins
G.O. Aspinall, D.W. Gammon, R.K. Sood (Toronto, Canada), D. Chatterjee, B. Rivoire and P.J. Brennan (Fort Collins, CO, USA) 57

The products of the zinc chloride-promoted decomposition of cellulose in aqueous phenol at 350°C
R.J. Ferrier, W.B. Severn (Wellington, New Zealand), R.H. Furneaux and I.J. Miller (Petone, New Zealand) 79

Isotope studies of the transfer of the carbon atoms of carbohydrate derivatives into aromatic compounds (especially xanthene) under degradation conditions
R.J. Ferrier, W.B. Severn (Wellington, New Zealand), R.H. Furneaux and I.J. Miller (Petone, New Zealand) 87

Synthesis and ^{13}C NMR spectra of 2,3-di-*O*-glycosyl derivatives of methyl α-L-rhamnopyranoside and methyl α-D-mannopyranoside
N.E. Nifant'ev, A.S. Shashkov, G.M. Lipkind and N.K. Kochetkov (Moscow, Russian Federation) 95

D-Galacturonic acid derivatives as acceptors and donors in glycosylation reactions
C. Vogel, W. Steffan (Rostock, Germany), A.Y. Ott and V.I. Betaneli (Moscow, Russian Federation) 115

Synthesis of a heteroglycuronan derivative containing the β-D-galactopyranosyluronic acid (1 → 3)-L-rhamnose repeating unit
C. Vogel, W. Steffan, H. Boye, H. Kristen (Rostork, Germany), V.I. Betaneli, A.Y. Ott and N.K. Kochetkov (Moscow, Russian Federation) 131

Synthesis of some further C-3 branched 3-amino-2,3,6-trideoxy sugars, related to daunosamine, as potential components for structurally modified anthracyclines
F. Santoyo González, A. Vargas Berenguel, F. Hernández Mateo, P. García Mendoza (Granada, Spain) and H.H. Baer (Ottawa, Canada) 145

A simple procedure for the synthesis of the methyl and benzyl glycosides of Neu5Ac and 4-*epi*-Neu5Ac. Conversion of the benzyl and methyl glycosides of Neu5Ac into *N*-trifluoroacetylneuraminic acid benzyl glycosides
N.E. Byramova, A.B. Tuzikov and N.V. Bovin (Moscow, Russian Federation) 161

Strong competitive inhibition of porcine pancreatic alpha-amylase by aminodeoxy derivatives of maltose and maltotriose
J. Lehmann, M. Schmidt-Schuchardt and J. Steck (Freiburg, Germany) 177

Synthesis of (+)- and (−)-nojirimycin and their 1-deoxy derivatives from *myo*-inositol
N. Chida, Y. Furuno, H. Ikemoto and S. Ogawa (Yokohama, Japan) 185

Chromate reduction: reduction of potassium chromate by D-glucose and D-fructose to form Cr(III)–saccharide complexes
C.P. Rao and S.P. Kaiwar (Bombay, India) 195

Soluble complexes of early first-row transition-metal ions with D-glucose
S.P. Kaiwar and C.P. Rao (Bombay, India) 203

The formation and stability of partially and completely substituted cellulose nitrite esters in dipolar aprotic solvents containing N_2O_4
W. Wagenknecht, I. Nehls and B. Philipp (Teltow, Germany) 211

Selective protonic activation of isomeric glycosylfructoses with pyridinium poly(hydrogen fluoride) and synthesis of spirodioxanyl oligosaccharides
J. Defaye and J.M. García Fernández (Grenoble, France) 223

Structure of the O-antigen of *Escherichia coli* 0119 lipopolysaccharide
A.N. Anderson, J.C. Richards and M.B. Perry (Ottawa, Canada) 249

Action of Taka-amylase A and cyclodextrin glucanotransferase on dialdehyde-cyclodextrins and their reduced forms
M. Kobayashi and S. Ohya (Tsukuba, Japan) 263

Notes

NMR studies of a tetrasaccharide from hyaluronic acid
P. Livant, L. Rodén and N.R. Krishna (Birmingham, AL, USA) 271

^1H and ^{13}C NMR study of nonsymmetrical α,α-trehalose derivatives
R.C. García, S. Cruz-Sánchez, R. Méndez, R. Tovar-Miranda (Veracruz, México) and P. Joseph-Nathan (México, México) 283

Die überraschende Konformation des L-*galacto*-D-*galacto*-Decitols im Kristall
P. Köll (Oldenburg, Deutschland), J. Kopf, M. Morf, B. Zimmer (Hamburg, Deutschland) und J.S. Brimacombe (Dundee, United Kingdom) 289

Synthesis of glycosidic and 2-deoxyglycosidic ortholactones from 1-bromoglycosyl cyanides
J.G. Buchanan, A.P.W. Clelland, R.H. Wightman (Edinburgh, United Kingdom), T. Johnson and R.A.C. Rennie (Runcorn, United Kingdom) 295

Synthesis of 1-aryl-(1,2-dideoxy-α-D-glucofurano)[2,1-*d*]imidazolidine-2-selones and the crystal structure of the 1-*p*-bromophenyl derivative
J. Fernández-Bolaños Guzmán (Sevilla, Spain), T. Skrydstrup (Gif-sur-Yvette, France), A. López-Castro, M.J. Diánez Millán and M.D. Estrada de Oya (Sevilla, Spain) 303

Simple procedure for the preparation of trimethylsilyl ethers of carbohydrates and alcohols
D.A. Johnson (Hamilton, MT, USA) 313

Sulfate composition of dermatan sulfate from scar tissue
M.O. Longas (Hammond, IN, USA) and H.G. Garg (Boston, MA, USA) 319

Unusual susceptibility of chitosan to enzymic hydrolysis
D. Pantaleone, M. Yalpani and M. Scollar (Mount Prospect, IL, USA) 325

A ^{1}H NMR study of a fragment of partially *N*-deacetylated chitin produced by lysozyme degradation
K. Ishiguro, N. Yoshie, M. Sakurai and Y. Inoue (Tokyo, Japan) 333

Announcement C1

Author index C3

Subject index C5

Contents C9